

icant : Geoffrey Terence Bailey Date: Ocrose 30, 2003

rial No. : 10/654,374

Filed : September 3, 2003

For : METHOD OF DISPLAYING GRAPHICS ON A CONTAINER

#### PETITION FOR GRANT OF PRIORITY UNDER 35 U.S.C. 119

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Applicant hereby petitions for grant of priority of the present application on the basis of the following prior filed foreign application:

COUNTRY SERIAL NO. FILING DATE

United Kingdom 03 12 570.5 June 2, 2003

To perfect Applicant's claim to priority, a certified copy of the above listed prior filed application is enclosed.

Acknowledgment of Applicant's perfection of claim to Priority is accordingly requested.

Respectfully submitted,

Arthur Jacob

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# CERTIFICATE OF MAILING

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO: COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 ON

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The Patent Office Concept House Cardiff Road Newport South Wales NP10 8QQ

I, the undersigned, being an officer duly authorised in accordance with Section 74(1) and (4) of the Deregulation & Contracting Out Act 1994, to sign and issue certificates on behalf of the Comptroller-General, hereby certify that annexed hereto is a true copy of the documents as originally filed in connection with the patent application identified therein.

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Re-registration under the Companies Act does not constitute a new legal entity but merely subjects the company to certain additional company law rules.

Signed

Dated

15 September 2003



02JUN03 E811763-1 D03028 P01/7700 0.00-0312570.5 Patents Form 1/77 Patents Act 1977 Request for grant of a pat Grant

The Patent Office Concept House Cardiff Road Newport Gwent NP10 8QQ

1.	Your reterence	2372 P401	0-2 JUN 2003	
2.	Patent application number	0312570.5		
3.	Full name, address and postcode of the or or cach applicant (underline all surnames)	The Business Centre  1A Lindrick Road  Woodsetts  Worksop S81 8RD	H	
	Patents ADP number (if you know it)	43465001	dinada (1701 ATE) કમ લીજ કરે કે લોકાય અને	
	If the applicant is a corporate body, give the country/state of its incorporation	United Kingdom	THE STATE OF THE S	
4.	Tatle of the invention	in Container	on the grade of	
5.	Name of your agent	ATKINSON BURRINGTO	A CONTRACTOR OF THE STATE OF TH	
	"Address for service" in the United Kingdom to which all correspondence should be sent	25-29 President Building President Way Sheffield S4 7UR GB		
	Telephone No:	0114 275,240	10	
	Patents ADP number	780704300	<b>1 1/4 .</b>	
6.	If you are declaring priority from one or mor earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number		Date of filing (day/month/year)	
7.	If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application		Date of filing day/month/year)	
	Is a statement of inventorship and of right to grant of a parent required in support of this request?	The second secon		

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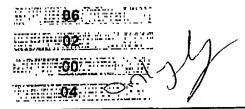
Continuation sheets of this form

Description

Claim(s)

Abstract

Drawings



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Priority documents

Translations of priority documents

Statement of inventorship and right to grant of a patent (Patent Form 7/77)

Request for preliminary examination and search (Patents Form 9/77)

Request for substantive examination (Patents Form 10/77)

Any other documents (Please specify)

None.

None

None

11.

I/We request the grant of a patent on the basis of this application.

2 Mitin

Signature

Date Monday, 02 June 2003

12. Name and daytime telephone number of person to contact in the United Kingdom

RALPH ATKINSON CPA 0114 275 2400

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## Container

# Background of the Invention

ATKINSON BURRINGTON

#### 1. Field of the Invention

The present invention relates to the display of graphics on a container, in particular a container having a non-uniform conformation.

# 2. Description of the Related Art

A first technique for displaying 2-Dimensional graphics on a 3-Dimensional container is to apply the graphics to the container by printing the graphics directly onto a surface of the container.

A second technique for displaying 2-Dimensional graphics on a 3-Dimensional container is to apply the graphics onto a label which is then secured onto a surface of the container, or secured around a conformation portion of the container having a uniform cross-section therethrough.

# **Brief Summary of the Invention**

According to a first aspect of the present invention, there is provided a planar covering for a container comprising a conformation portion having a non-uniform cross-section therethrough, said planar covering comprising graphic representation in distorted proportion to compensate for the shape of said conformation portion, whereby said graphic representation appears in normal proportion following application of said planar covering to said conformation portion.

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According to a second aspect of the present invention, there is provided a container comprising a conformation portion having a non-uniform cross-section therethrough, and a planar covering for said container, said planar covering comprising graphic representation in distorted proportion to compensate for the shape of said conformation portion, whereby said graphic representation appears in normal proportion following application of said covering to said conformation portion.

According to a third aspect of the present invention, there is provided a method of applying graphics to a conformation portion of a container, said conformation portion having a non-uniform cross-section therethrough, said method comprising the steps of: a)applying graphics in distorted proportion to a planar covering, and b)performing an application process in which said planar covering is applied to said conformation portion such that following said application process said graphics appear in normal proportion.

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# Brief Description of the Several Views of the Drawings

Figure 1 shows a container having a non-uniform conformation portion;

Figure 2 shows a planar covering for application to the container shown in Figure 1;

Figure 3 shows graphics of the planar covering shown in Figure 2 in further detail;

Figure 4 shows the planar covering shown in Figure 2 applied to the container shown in Figure 1.

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# Written Description of the Best Mode for Carrying Out the Invention Figure 1

Figure 1 shows a container comprising a conformation portion having a non-uniform cross-section therethrough. In this example, the container is a bottle 101. Bottle 101 comprises first and second non-uniform conformation portions 102, 103 respectively, a third bottom portion 104 with a closed bottle bottom, and a top portion 105 with an open bottle top.

The first and second conformation portions 102, 103 each have a non-uniform cross-section therethrough. For example, observing the change in cross-section perpendicular to centre-line 106 through bottle 101, moving along centre-line 106 through each of the non-uniform conformation portions 102, 103; the shape of first conformation portion 102 is a substantially spherical bulge and the shape of second conformation portion 103 is substantially a truncated cone. The cross-section of first conformation portion 102 having the maximum radius is indicated by line 107, and this indicates the radius of the spherical shape of this conformation portion 102.

#### Figure 2

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Figure 2 shows a planar covering 201 for bottle 101. Planar covering 201 comprises graphics 202.

In this example, planar covering 201 is substantially rectangular and is arranged such that following application of the covering 201 to bottle 101, the covering 201 is secured around the bottle 101 and is positioned over each of

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the three portions 102, 103, 104 between the top and the bottom of the bottle 101. In this example, graphics 202 are positioned on covering 201 such that following the application of covering 201 to bottle 101, graphics 202 are substantially wrapped around first conformation portion 102, following the conformation contour thereof. Graphics 202 are shown in further detail in Figure 3.

## Figure 3

Figure 3 shows graphics 202 in further detail. In the illustrated example, graphics 202 is arranged such that following the application of covering 201 to bottle 101, graphics 202 applied to first conformation portion 102 represent a football having regular hexagonal and regular pentagonal football sections.

Graphics 202 comprises a plurality of hexagonal and pentagonal football section representations 301 arranged in a 2-Dimensional format, Due to the non-uniform cross-section of first conformation portion 102, graphics 202 comprises graphics, for example graphics 302 in region 303, in distorted proportion to compensate for the shape of the first conformation portion 102. In this example, graphics 202 comprises football section representations, for example football section representation 304, that have a non-regular shape, in this example non-regular hexagonal or pentagonal shape.

Planar covering 201 is arranged to be applied to bottle 101 such that the longitudinal centre-line 305 through graphics 202 is aligned with the line 107 indicating the radius of the substantially spherical bulge of first

conformation portion 102. Thus, it can be seen from Figure 3 that the football section representations 301 lying on centre-line 305 are regular in shap. Moving away from centre-line 305 in a direction perpendicular thereto, it can be seen that the greater the distance from the centre-line 305, the more irregular the shape of the football section representation 301. This corresponds to the increase in curvature of the first conformation portion 102 as the perpendicular distance from the circumferential line 107 increases,

# Figure 4

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Figure 4 shows planar covering 201 applied to bottle 101. It can be seen that following the application of the covering 201 to the bottle 101, graphics 202 appear in normal proportion; taking into account normal perspective. For example, non-regular football section representation 304, appears in normal proportion following the application of covering 201 to bottle 101.

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In this example, the relative proportion of a football section representation having a 2-Dimensional irregular shape is adjusted during the application process, such that the football section representation in 3-Dimensional shape over the bottle appears regular. An application process in which a degree of regularity or irregularity of a shape is removed is utilisable. A process utilisable as the application process is shrink-wrapping. A planar shrink-wrap container covering having graphics applied thereto, for example by a printing process, is utilisable to display 2-Dimensional graphics on a non-uniform 3-Dimensional container.



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Graphics of the type described herein, having graphics in distorted proportion, are arrangable on a planar covering to be applied to containers having alternative shapes of a non-uniform conformation portion, and such containers to which a planar covering is applied can be fabricated from plastic, aluminium or any other material.

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## Claims

- 1. A planar covering for a container comprising a conformation portion having a non-uniform cross-section therethrough, said planar covering comprising graphic representation in distorted proportion to compensate for the shape of said conformation portion, whereby said graphic representation appears in normal proportion following application of said planar covering to said conformation portion.
- 10 2. A container comprising a conformation portion having a nonuniform cross-section therethrough, and a planar covering for said container, said planar covering comprising graphic representation in distorted proportion to compensate for the shape of said conformation portion, whereby said graphic representation appears in normal proportion following application of said covering to said conformation portion. 15
  - 3. A container according to claim 2, in which said shape is a substantially spherical bulge.
  - 4. A method of applying graphics to a conformation portion of a container, said conformation portion having a non-uniform cross-section therethrough, said method comprising the steps of:
    - applying graphics in distorted proportion to a planar covering, a) and



- b) performing an application process in which said planar covering is applied to said conformation portion such that following said application process said graphics appear in normal proportion.
- A method according to claim 4 in which the relative proportions of said graphics are adjusted during said application process.
- 6. A method according to claim 4 or claim 5 in which said application process involves shrink-wrapping.

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7. A method according to any of claims 4 to 6 in which step a) comprises applying graphics to a planar covering such that said graphics are in distorted proportion to compensate for the shape of said conformation portion.

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- 8. A method according to any of claims 4 to 7 wherein said shape is a substantially spherical bulge.
- 9. A planar covering substantially as described herein with reference to Figures 1 to 4.
  - 10. A method of displaying graphics on a non-uniform 3-Dimensional container substantially as described herein with reference to Figures 1 to 4.

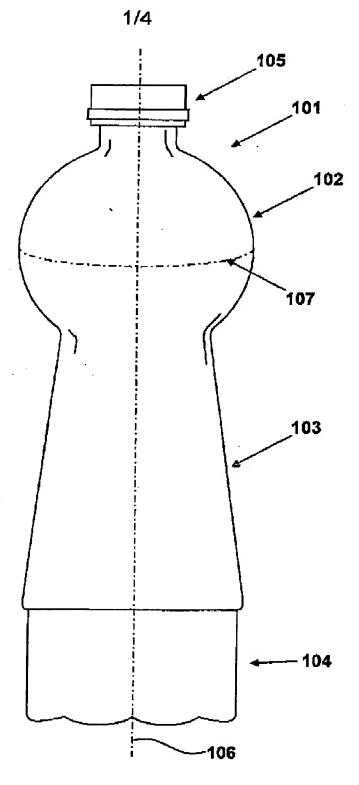
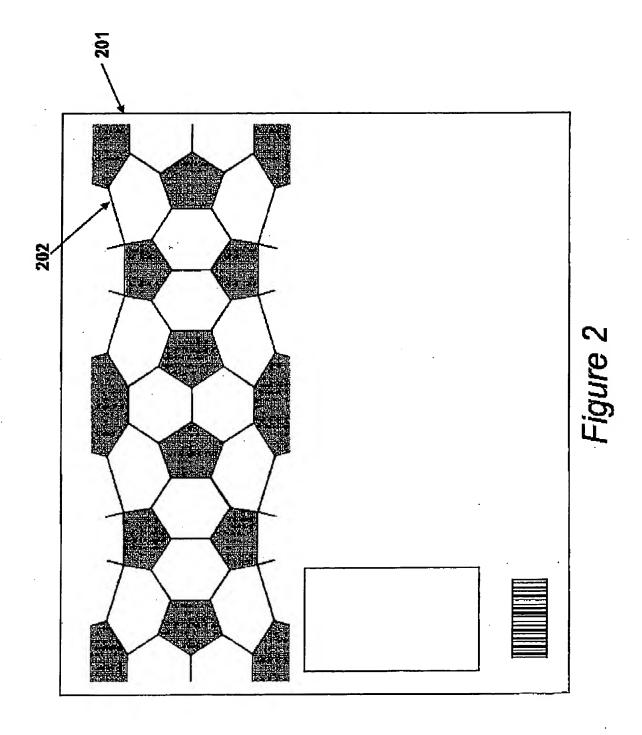


Figure 1

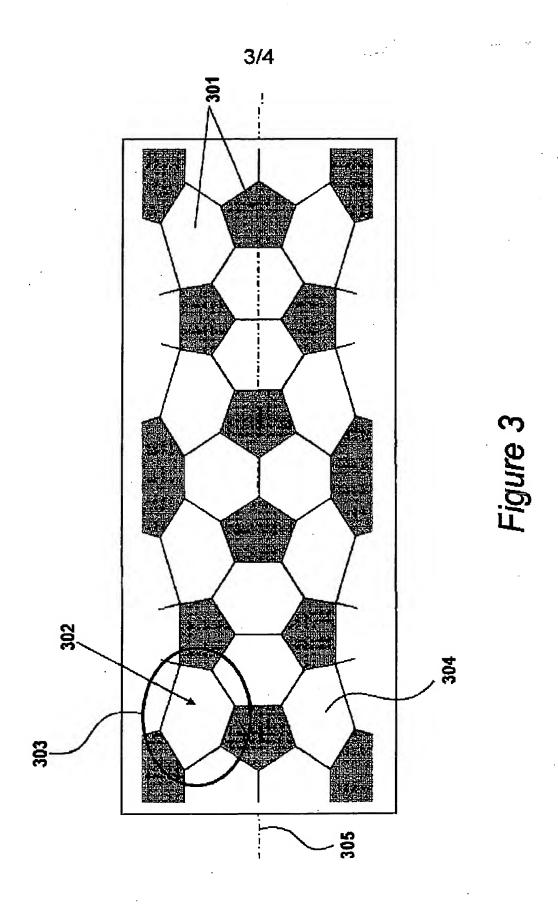
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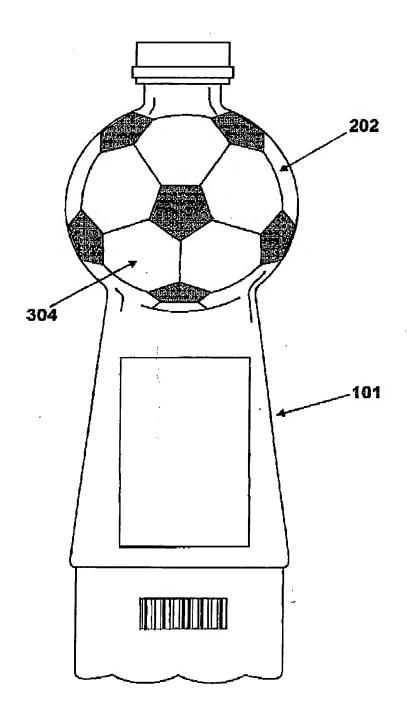


Figure 4

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